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ABSTRACT OF THE DISCLOSURE

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and method
An apparatus[^] for controlling recording and reproduction
in a video cassette tape recorder[^] capable of, in a recording
mode, separating specific data for speed-varied reproduction
from compressed digital video signals, recording them on
designated tracks, recording position information of the
designated tracks on a control track by an index head or
recording position information of recording position-
synchronized blocks at the starting portions of the designated
tracks recorded with the specific data, and in a speed-varied
reproduction mode, controlling a capstan servo speed so as to
maintain the travel of a magnetic tape at a normal speed and
periodically or non-periodically accelerate or decelerate it
where specific data for varied-speed have been recorded
periodically or non-periodically on predetermined portions of
tracks, thereby making heads travel repeatedly at the normal
speed and the high speed and thereby detect continuously the
specific tracks for varied-speed. A repeatability of
reproduced video at a varied speed is obtained without any
deterioration in picture quality, because of recording of^{the}
specific data for speed-varied reproduction and^{the} continuous
detection of the specific data in the speed-varied
reproduction.